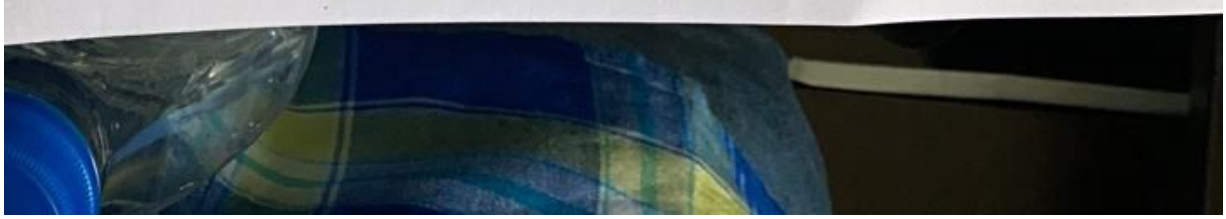
Bruhat Bangalore Mahanagara Palike

Name of Work: Improvements to roads and drains at Agrahara and surrounding area in Ward No 05 Byatarayanapura sub division

Est Cost: =400.00Lakhs

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work		m	m	m				
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5=69.80								
	Basic rate	130							
	5Km lead & Lift= 57+(2*1.28*5)	69.8							
	Sub Total	199.8							
	6% AW	11.988							
	Total	211.79							
	Desilt								
	Thirumenahalli Mn Rd Surrounding area								
	W1293	2	120.00	0.60	0.35	50.40			
	W1299	2	155.00	0.60	0.35	65.10			
	W1313	2	75.00	0.60	0.35	31.50			
	W1317	2	75.00	0.60	0.35	31.50			
	W1289	2	105.00	0.60	0.35	44.10			
	W1293	2	105.00	0.60	0.35	44.10			
	W1311	2	100.00	0.60	0.35	42.00			
	WA1311	2	125.00	0.60	0.35	52.50			
	Cross Rd - 2	1	20.00	0.60	0.35	4.20			
	W0724	2	75.00	0.60	0.35	31.50			
	W0726	2	80.00	0.60	0.35	33.60			
	W1319	1	80.00	0.60	0.35	16.80			
	MS Nagar								
	W1145	2	400.00	0.60	0.35	168.00			
	W1139	2	155.00	0.60	0.35	65.10			
	W1139 A	2	300.00	0.60	0.35	126.00			
	W0634	2	265.00	0.60	0.35	111.30			
	W1133	2	215.00	0.60	0.35	90.30			
	W1151	2	280.00	0.60	0.35	117.60			
	W1159	2	525.00	0.60	0.35	220.50			
	WA1159	2	145.00	0.60	0.35	60.90			
	W1165	2	240.00	0.60	0.35	100.80			
	W1148	2	340.00	0.60	0.35	142.80			
	W2001	2	305.00	0.60	0.35	128.10			
	W2005	2	235.00	0.60	0.35	98.70			
	W2007	2	305.00	0.60	0.35	128.10			
	W1961	2	375.00	0.60	0.35	157.50			
	W2011	2	300.00	0.60	0.35	126.00			
	W2013	2	295.00	0.60	0.35	123.90			
	W2019	2	187.00	0.60	0.35	78.54			
	New B.S Drain								
	Cross Rd -1	2	20.00	0.80	0.70	22.40			
	Agrahara layout								
	W0542	2	720.00	0.80	0.70	806.40			
	Culverts Desilt								
		3	6.00	0.80	0.80	11.52			
	RCC Culvert								
	New Culverts	3	6.00	1.40	1.15	28.98			
						3,360.74	**Cum**	**211.79**	**711771.12**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27, I.No.5.33 of PW, P&IWTD SR 2018-19)								
	Basic rate	105							
	6% AW	6.3							

	Total	111.3							
	Desilt								
	Thirumenahalli Mn Rd Surrounding area								
	W1293	2	120.00	1.35		324.00			
	W1299	2	155.00	1.35		418.50			
	W1313	2	75.00	1.35		202.50			
	W1317	2	75.00	1.35		202.50			
	W1289	2	105.00	1.35		283.50			
	W1293	2	105.00	1.35		283.50			
	W1311	2	100.00	1.35		270.00			
	WA1311	2	125.00	1.35		337.50			
	Cross Rd - 2	1	20.00	1.35		27.00			
	W0724	2	75.00	1.35		202.50			
	W0726	2	80.00	1.35		216.00			
	W1319	1	80.00	1.35		108.00			
	MS Nagar								
	W1145	2	400.00	1.35		1,080.00			
	W1139	2	155.00	1.35		418.50			
	W1139 A	2	300.00	1.35		810.00			
	W0634	2	265.00	1.35		715.50			
	W1133	2	215.00	1.35		580.50			
	W1151	2	280.00	1.35		756.00			
	W1159	2	525.00	1.35		1,417.50			
	WA1159	2	145.00	1.35		391.50			
	W1165	2	240.00	1.35		648.00			
	W1148	2	340.00	1.35		918.00			
	W2001	2	305.00	1.35		823.50			
	W2005	2	235.00	1.35		634.50			
	W2007	2	305.00	1.35		823.50			
	W1961	2	375.00	1.35		1,012.50			
	W2011	2	300.00	1.35		810.00			
	W2013	2	295.00	1.35		796.50			
	W2019	2	187.00	1.35		504.90			
	Culvert Slab	3	6.00	1.50		27.00			
						16,043.40			
	Consider 15%					**2,406.51**			
	deduct damaged / missing slab 10%					-240.65			
						2,165.86	**Sqm**	**111.30**	**241060.11**
3	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.27, I.No.5.31.1 of PW P&IWTD SR 2018-19)								
	Basic rate	700							
	6% AW	42							
	Sub Total	742							
	Cross Rd -1	2	20.00		1.80	72.00			
	Agrahara layout								
	W0542	2	720.00		1.80	2,592.00			
	Add damaged / missing					240.65			
						2,904.65	**Sqm**	**742.00**	**2155251.04**
4	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408 (P.No.254, I.No.34.1 of PW,P&IWTD S.R 2018-19)								
	Basic rate	4226							
	6% AW	253.56							
	Sub Total	4479.56							
	RCC Culvert								
	New Culverts	3	6.00	1.40	0.15	3.78			
						3.78	**Cum**	**4479.56**	**16,932.74**



5	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13. cement mortar 1:6(P.No.255, I.No.34.8.2 of PW, P&IWTD S.R 2018-19)									
	Basic rate	4596								
	6% AW	275.76								
	Sub Total	4871.76								
	Raising of Culverts	4	6.00	0.45	0.45	4.86				
						4.86	**Cum**	**4871.76**	**23,676.75**	
6	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications.Specification No. KBS 4.1, 4.2(P.No 255, I.No.34.11 of PW,P&IWTD S.R 2018-19)									
	Basic rate	5283								
	6% AW	316.98								
	Sub Total	5599.98								
	Flagging Course									
	Raising of Culverts	4	6.00	0.45	0.10	1.08				
						1.08	**Cum**	**5599.98**	**6,047.98**	
7	34.17 Providing and laying in position plain/Reinforced cement cement concrete M20 for sub structure/Superstructure works, with cement @ 320 kgs, 20 mm & down size graded granite metal coarse aggregate @ 0.69 cum and fine aggregates @ 0.46 cum machine mixed with super plasticisers @ 3 lts confirming to IS 9103-2008,concrete laid in layers, well compacted and providing weep holes wherever necessary. with necessary scaffolding, form work etc., including cost of labour, HOM curing etc., complete. (P.No.257, I.No.34.17 of PW, P&IWTD SR 2018-19)									
	Basic rate	4979								
	6% AW	298.74								
	Sub Total	5277.74								
	Raft									
	RCC Culvert									
	New Culverts	3	6.00	1.20	0.20	4.32				
	Side Wall									
	RCC Culvert									
	New Culverts	6	6.00	0.20	0.80	5.76				
						10.08	**Cum**	**5277.74**	**53,199.62**	
8	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200.**TMT Bars Fe 500** (P.No.229, I.No.28.8.2 of									
	Basic rate	68233								
	6% AW	4093.98								
	Sub Total	72326.98								
	Consider 80kg/Cum for	1	10.08	80.00		0.81				
						0.81	**Tonne**	**72326.98**	**58,584.85**	
9	Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge									
	Data rate	5418								
	RCC Culvert									
	New Culverts	3	6.00	1.20		21.60				
	Damaged Slabs	2	6.00	1.50		18.00				
						39.60	**Sqm**	**5418.00**	**214552.80**	

10	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301with 4km lead= (I No-19.14,P No-143)									
	Basic rate	41								
	5Km lead & Lift= (2*1.28*4)	10.24								
	Sub Total	51.24								
	6% AW	3.0744								
	Total	54.31								
	Road Works									
	W0542	1	720.00	1.20	0.30	259.20				
	Thirumenahalli Mn Rd Surrounding area									
	W1313	1	75.00	4.30	0.30	96.75				
	W1317	1	75.00	4.30	0.30	96.75				
	W1289	1	105.00	4.70	0.30	148.05				
	W1293	1	105.00	4.20	0.30	132.30				
	W1311	1	100.00	3.50	0.30	105.00				
	WA1311	1	125.00	3.60	0.30	135.00				
	Cross Rd - 2	1	20.00	4.30	0.30	25.80				
	W0724	1	75.00	5.50	0.30	123.75				
	W0726	1	80.00	5.50	0.30	132.00				
	W1319	1	80.00	5.50	0.30	132.00				
	MS Nagar									
	W1145	2	400.00	1.20	0.30	288.00				
	W1139	1	155.00	5.50	0.30	255.75				
	W1139 A	1	300.00	5.50	0.30	495.00				
	W0634	1	265.00	10.00	0.30	795.00				
	W1133	1	215.00	5.50	0.30	354.75				
	W1151	1	280.00	5.50	0.30	462.00				
	W1159	1	525.00	5.50	0.30	866.25				
	WA1159	1	145.00	5.50	0.30	239.25				
	W1165	1	240.00	5.50	0.30	396.00				
	W1148	2	340.00	1.20	0.30	244.80				
	W2001	2	305.00	1.20	0.30	219.60				
	W2005	2	235.00	1.20	0.30	169.20				
	W2007	2	305.00	1.20	0.30	219.60				
	W1961	2	375.00	1.20	0.30	270.00				
	W2011	2	300.00	1.20	0.30	216.00				
	W2013	2	295.00	1.20	0.30	212.40				
	W2019	2	187.00	1.20	0.30	134.64				
						7,224.84	**Cum**	**54.31**	**392381.06**	
11	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)									
	Basic rate	1888								
	6% AW	113.28								
	Sub Total	2001.28								
	Road Works									
	W0542	1	720.00	1.20	0.25	216.00				
	W0724	1	75.00	5.50	0.25	103.13				
	W0726	1	80.00	5.50	0.25	110.00				
	W1319	1	80.00	5.50	0.25	110.00				
	MS Nagar									
	W1145	2	400.00	1.20	0.25	240.00				
	W1139	1	155.00	5.50	0.25	213.13				

	W1139 A	1	300.00	5.50	0.25	412.50			
	W0634	1	265.00	10.00	0.25	662.50			
	W1133	1	215.00	5.50	0.25	295.63			
	W1151	1	280.00	5.50	0.25	385.00			
	W1159	1	525.00	5.50	0.25	721.88			
	WA1159	1	145.00	5.50	0.25	199.38			
	W1165	1	240.00	5.50	0.25	330.00			
	W1148	2	340.00	1.20	0.25	204.00			
	W2001	2	305.00	1.20	0.25	183.00			
	W2005	2	235.00	1.20	0.25	141.00			
	W2007	2	305.00	1.20	0.25	183.00			
	W1961	2	375.00	1.20	0.25	225.00			
	W2011	2	300.00	1.20	0.25	180.00			
	W2013	2	295.00	1.20	0.25	177.00			
	W2019	2	187.00	1.20	0.25	112.20			
						5,404.33	**Cum**	**2001.28**	**10815577.54**
12	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.158, I.No.21.6 of PW,P&IWTD SR 2018-19)								
	Basic rate	27							
	6% AW	1.62							
	Sub Total	28.62							
	Road Works								
	W0542	1	720.00	1.20		864.00			
	W0724	1	75.00	5.50		412.50			
	W0726	1	80.00	5.50		440.00			
	W1319	1	80.00	5.50		440.00			
	MS Nagar								
	W1145	2	400.00	1.20		960.00			
	W1139	1	155.00	5.50		852.50			
	W1139 A	1	300.00	5.50		1,650.00			
	W0634	1	265.00	10.00		2,650.00			
	W1133	1	215.00	5.50		1,182.50			
	W1151	1	280.00	5.50		1,540.00			
	W1159	1	525.00	5.50		2,887.50			
	WA1159	1	145.00	5.50		797.50			
	W1165	1	240.00	5.50		1,320.00			
	W1148	2	340.00	1.20		816.00			
	W2001	2	305.00	1.20		732.00			
	W2005	2	235.00	1.20		564.00			
	W2007	2	305.00	1.20		732.00			
	W1961	2	375.00	1.20		900.00			
	W2011	2	300.00	1.20		720.00			
	W2013	2	295.00	1.20		708.00			
	W2019	2	187.00	1.20		448.80			
				Sub Total		**21,617.30**			
						21,617.30	**Sqm**	**28.62**	**618687.13**
13	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.158, I.No.21.2 of PW,P&IWTD SR 2018-19)								
	Basic rate	5							
	Area Weightage 6%	0.3							
	Final Rate	5.3							
	Road Works								
	W0542	1	720.00	7.00		5,040.00			
	W1145	1	400.00	5.50		2,200.00			
	W1293	1	120.00	4.20		504.00			

	W1299	1	155.00	6.00		930.00			
	Cross Rd - 2	1	20.00	4.30		86.00			
	W1148	1	340.00	5.50		1,870.00			
	W2001	1	305.00	5.50		1,677.50			
	W2005	1	235.00	5.50		1,292.50			
	W2007	1	305.00	5.50		1,677.50			
	W1961	1	375.00	5.50		2,062.50			
	W2011	1	300.00	5.50		1,650.00			
	W2013	1	295.00	5.50		1,622.50			
	W2019	1	187.00	5.50		1,028.50			
	Deduct prime coat					-7,444.80			
						14,196.20	**Sqm**	**5.30**	**75,239.86**
14	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.158 I.No.21.7 of PW,P&IWTD SR of 2018-19)								
	Basic rate	12							
	Area Weightage 6%	0.72							
	Final Rate	12.72							
	Tack Coat For DBM								
	DBM								
	Road Works								
	MS Nagar								
	W1145	2	400.00	1.20		960.00			
	W0542	1	720.00	1.20		864.00			
	W1148	2	340.00	1.20		816.00			
	W2001	2	305.00	1.20		732.00			
	W2005	2	235.00	1.20		564.00			
	W2007	2	305.00	1.20		732.00			
	W1961	2	375.00	1.20		900.00			
	W2011	2	300.00	1.20		720.00			
	W2013	2	295.00	1.20		708.00			
	W2019	2	187.00	1.20		448.80			
	Tack Coat For BC								
	Road Works								
	W0542	1	720.00	7.00		5,040.00			
	W0724	1	75.00	5.50		412.50			
	W0726	1	80.00	5.50		440.00			
	W1319	1	80.00	5.50		440.00			
	MS Nagar								
	W1145	1	400.00	5.50		2,200.00			
	W1139	1	155.00	5.50		852.50			
	W1139 A	1	300.00	5.50		1,650.00			
	W0634	1	265.00	10.00		2,650.00			
	W1133	1	215.00	5.50		1,182.50			
	W1151	1	280.00	5.50		1,540.00			
	W1159	1	525.00	5.50		2,887.50			
	WA1159	1	145.00	5.50		797.50			
	W1165	1	240.00	5.50		1,320.00			
	W1293	1	120.00	4.20		504.00			
	W1299	1	155.00	6.00		930.00			
	Cross Rd - 2	1	20.00	4.30		86.00			
	W1148	1	340.00	5.50		1,870.00			
	W2001	1	305.00	5.50		1,677.50			
	W2005	1	235.00	5.50		1,292.50			
	W2007	1	305.00	5.50		1,677.50			
	W1961	1	375.00	5.50		2,062.50			
	W2011	1	300.00	5.50		1,650.00			
	W2013	1	295.00	5.50		1,622.50			

	W2019	1	187.00	5.50		1,028.50			
						43,258.30	**Sqm**	**12.72**	**550245.58**
15	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	Basic rate	6224							
	6% AW	373.44							
	Sub Total	6597.44							
	DBM								
	Road Works								
	MS Nagar								
	W1145	2	400.00	1.20	0.05	48.00			
	W0542	1	720.00	1.20	0.05	43.20			
	W1148	2	340.00	1.20	0.05	40.80			
	W2001	2	305.00	1.20	0.05	36.60			
	W2005	2	235.00	1.20	0.05	28.20			
	W2007	2	305.00	1.20	0.05	36.60			
	W1961	2	375.00	1.20	0.05	45.00			
	W2011	2	300.00	1.20	0.05	36.00			
	W2013	2	295.00	1.20	0.05	35.40			
	W2019	2	187.00	1.20	0.05	22.44			
						372.24	**Cum**	**6597.44**	**2455831.07**
16	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (P.No.171, I.No.21.78.12 of PW,P&IWTD SR 2018-19)								
	Basic rate (Issue Rate)	7315.00							
	6% AW	438.9							
	Sub Total	7753.9							
	Road Works								
	W0542	1	720.00	7.00	0.04	201.60			
	W0724	1	75.00	5.50	0.04	16.50			
	W0726	1	80.00	5.50	0.04	17.60			
	W1319	1	80.00	5.50	0.04	17.60			
	MS Nagar								
	W1145	1	400.00	5.50	0.04	88.00			
	W1139	1	155.00	5.50	0.04	34.10			
	W1139 A	1	300.00	5.50	0.04	66.00			
	W0634	1	265.00	10.00	0.04	106.00			
	W1133	1	215.00	5.50	0.04	47.30			
	W1151	1	280.00	5.50	0.04	61.60			
	W1159	1	525.00	5.50	0.04	115.50			
	WA1159	1	145.00	5.50	0.04	31.90			
	W1165	1	240.00	5.50	0.04	52.80			
	W1293	1	120.00	4.20	0.04	20.16			
	W1299	1	155.00	6.00	0.04	37.20			
	Cross Rd - 2	1	20.00	4.30	0.04	3.44			
	W1148	1	340.00	5.50	0.04	74.80			
	W2001	1	305.00	5.50	0.04	67.10			
	W2005	1	235.00	5.50	0.04	51.70			
	W2007	1	305.00	5.50	0.04	67.10			
	W1961	1	375.00	5.50	0.04	82.50			
	W2011	1	300.00	5.50	0.04	66.00			
	W2013	1	295.00	5.50	0.04	64.90			

	W2019	1	187.00	5.50	0.04	41.14			
						1,432.54	**Cum**	**7753.90**	**11107771.91**
17	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182 I.No-24.15)								
	Basic rate	429							
	6% AW	25.74							
	Sub Total	454.74							
	Center Line	0.5	6,117.00	0.10		305.85			
	Edge Line	2	5,977.00	0.10		1,195.40			
						1,501.25	**Sqm**	**454.74**	**682678.43**
18	KSRRB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. . MORTH V Revision Specification No. 601, IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver .((P.No.174, I.No.22.1.2 of PW,P&IWTD SR 2018-19)								
	Basic rate	3665							
	6% AW	219.9							
	Sub Total	3884.9							
	W1313	1	75.00	4.30	0.15	48.38			
	W1317	1	75.00	4.30	0.15	48.38			
	W1289	1	105.00	4.70	0.15	74.03			
	W1293	1	105.00	4.20	0.15	66.15			
	W1311	1	100.00	3.50	0.15	52.50			
	WA1311	1	125.00	3.60	0.15	67.50			
	Cross Road 3	1	20.00	4.30	0.15	12.90			
						369.83	**cum**	**3884.90**	**1436733.14**
19	Constructing un-reinforced, **plain cement concrete for pavements using Grade concrete M30** with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-182,I No-								
	Basic rate	4916							
	6% AW	294.96							
	Sub Total	5210.96							
	W1313	1	75.00	4.30	0.15	48.38			
	W1317	1	75.00	4.30	0.15	48.38			
	W1289	1	105.00	4.70	0.15	74.03			
	W1293	1	105.00	4.20	0.15	66.15			

	W1311	1	100.00	3.50	0.15	52.50			
	WA1311	1	125.00	3.60	0.15	67.50			
	Cross Road 3	1	20.00	4.30	0.15	12.90			
						369.83	**Cum**	**5210.96**	**1927143.28**
								Total Construction Cost	**33543366.00**
20								12% GST to Construction Cost	**4025203.92**
21								5% Tender Premium	**1677168.30**
22								Cost towards Preparation of DPR LS	**375686.00**
23								Cost towards PMC / Third Party inspection LS	**375686.00**
								Sub Total	**39997110.22**
24								Miscellaneous and rounding off	**2,889.78**
								TOTAL	**40000000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

Tejus Consultants

Assistant Engineer
BBMP Bangalore

Asst. Executive Engineer,
BBMP Bangalore

Executive Engineer
BBMP, Bangalore

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಚಾಮರಾಜಪೇಟೆ ವಿಭಾಗ ಯಲಚಂಕ ನಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಬೆಂಗಳೂರು-560002.

Bruhat Bangalore Mahanagara Palike

Name of Work: Improvements to roads and drains at Hegdenagar and surrounding area in Ward No 06 Byatarayanapura sub division

Est Cost: =400.00Lakhs

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work		m	m	m				
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5=69.80								
	Basic rate	130.00							
	5Km lead & Lift= 57+(2*1.28*5)	69.80							
	Sub Total	199.80							
	6% AW	11.99							
	Total	211.79							
	Desilt								
	Hegdenagar main Rd W0006								
	W0006 Ch 0 - 640	2	640.00	0.60	0.35	268.80			
	W0082 Ch 650 - 1010	2	360.00	0.60	0.35	151.20			
	W0137 Ch 1010 - 1050	1	40.00	0.60	0.35	8.40			
	W0137 Ch 1050 - 1310	2	260.00	0.60	0.35	109.20			
	W0096 Ch 1310 - 1410	2	100.00	0.60	0.35	42.00			
	W0209 Ch 1410 - 1740	2	330.00	0.60	0.35	138.60			
	W0355	2	125.00	0.60	0.35	52.50			
	W0130	2	30.00	0.60	0.35	12.60			
	W0134	2	35.00	0.60	0.35	14.70			
	W0136	2	35.00	0.60	0.35	14.70			
	W0357	2	60.00	0.60	0.35	25.20			
	W0357	2	200.00	0.60	0.35	84.00			
	W0361	2	220.00	0.60	0.35	92.40			
	W0369	2	385.00	0.60	0.35	161.70			
	W0373	2	400.00	0.60	0.35	168.00			
	W0377	2	390.00	0.60	0.35	163.80			
	W0146	2	40.00	0.60	0.35	16.80			
	W0379	1	160.00	0.60	0.35	33.60			
	W0140	2	105.00	0.60	0.35	44.10			
	W0389	2	240.00	0.60	0.35	100.80			
	W0391	2	435.00	0.60	0.35	182.70			
	W0411	2	525.00	0.60	0.35	220.50			
	W0065	2	240.00	0.60	0.35	100.80			
	W0069	2	245.00	0.60	0.35	102.90			
	W0077	2	245.00	0.60	0.35	102.90			
	W0079	2	255.00	0.60	0.35	107.10			
	W0081	2	265.00	0.60	0.35	111.30			
	W0047	2	95.00	0.60	0.35	39.90			
	W0041	2	100.00	0.60	0.35	42.00			
	W0033	2	120.00	0.60	0.35	50.40			
	W0039	2	155.00	0.60	0.35	65.10			
	W0045	2	135.00	0.60	0.35	56.70			
	W0045-A	2	50.00	0.60	0.35	21.00			
	W0051	2	200.00	0.60	0.35	84.00			
	W0055	2	150.00	0.60	0.35	63.00			
	Culverts								
	Cross Culverts	2	6.00	0.80	0.80	7.68			
	RCC Culvert								
	New Culverts	4	6.50	1.40	1.15	41.86			
						3,102.94	**Cum**	**211.79**	**6571**

2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27, I.No.5.33 of PW, P&IWTD SR 2018-19)								
	Basic rate	105.00							
	6% AW	6.30							
	Total	111.30							
	Desilt								
	Hegdenagar main Rd W0006								
	W0137 Ch 1050 - 1310	1	260.00	1.35		351.00			
	W0096 Ch 1310 - 1410	1	100.00	1.35		135.00			
	W0209 Ch 1410 - 1740	1	330.00	1.35		445.50			
	W0355	2	125.00	1.35		337.50			
	W0130	2	30.00	1.35		81.00			
	W0134	2	35.00	1.35		94.50			
	W0136	2	35.00	1.35		94.50			
	W0357	2	60.00	1.35		162.00			
	W0357	2	200.00	1.35		540.00			
	W0361	2	220.00	1.35		594.00			
	W0369	2	385.00	1.35		1,039.50			
	W0373	2	400.00	1.35		1,080.00			
	W0377	2	390.00	1.35		1,053.00			
	W0146	2	40.00	1.35		108.00			
	W0379	1	160.00	1.35		216.00			
	W0140	2	105.00	1.35		283.50			
	W0389	2	240.00	1.35		648.00			
	W0391	2	435.00	1.35		1,174.50			
	W0411	2	525.00	1.35		1,417.50			
	W0065	2	240.00	1.35		648.00			
	W0069	2	245.00	1.35		661.50			
	W0077	2	245.00	1.35		661.50			
	W0079	2	255.00	1.35		688.50			
	W0081	2	265.00	1.35		715.50			
	W0047	2	95.00	1.35		256.50			
	W0041	2	100.00	1.35		270.00			
	W0033	2	120.00	1.35		324.00			
	W0039	2	155.00	1.35		418.50			
	W0045	2	135.00	1.35		364.50			
	W0045-A	2	50.00	1.35		135.00			
	W0051	2	200.00	1.35		540.00			
	W0055	2	150.00	1.35		405.00			
	Culvert Slab	2	6.00	1.50		18.00			
						15,961.50			
	Consider 15%					2,394.23			
	deduct damaged / missing slab 10%					-239.42			
						2,154.80	**Sqm**	**111.30**	**239829.52**
3	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.27, I.No.5.31.1 of PW, P&IWTD SR 2018-19)								
	Basic rate	700.00							
	6% AW	42.00							
	Sub Total	742.00							
	Add damaged / missing slab 20%					239.42			
						239.42	**Sqm**	**742.00**	**177651.50**

4	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408 (P.No.254, I.No.34.1 of PW,P&IWTD S.R 2018-19)								
	Basic rate	4226.00							
	6% AW	253.56							
	Sub Total	4479.56							
	RCC Culvert								
	New Culverts	4	6.50	1.40	0.15	5.46			
						5.46	**Cum**	**4479.56**	**24,458.40**
5	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13. cement mortar 1:6(P.No.255, I.No.34.8.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	4596.00							
	6% AW	275.76							
	Sub Total	4871.76							
	Raising of Culverts	4	6.00	0.45	0.45	4.86			
						4.86	**Cum**	**4871.76**	**23,676.75**
6	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications.Specification No. KBS 4.1, 4.2(P.No 255, I.No.34.11 of PW,P&IWTD S.R 2018-19)								
	Basic rate	5283.00							
	6% AW	316.98							
	Sub Total	5599.98							
	Flagging Course								
	Raising of Culverts	4	6.00	0.45	0.10	1.08			
						1.08	**Cum**	**5599.98**	**6,047.98**
7	34.17 Providing and laying in position plain/Reinforced cement cement concrete M20 for sub structure/Superstructure works, with cement @ 320 kgs, 20 mm & down size graded granite metal coarse aggregate @ 0.69 cum and fine aggregates @ 0.46 cum machine mixed with super plasticisers @ 3 lts confirming to IS 9103-2008,concrete laid in layers, well compacted and providing weep holes wherever necessary. with necessary scaffolding, form work etc., including cost of labour, HOM curing etc., complete. (P.No.257, I.No.34.17 of PW, P&IWTD SR 2018-19)								
	Basic rate	4979							
	6% AW	298.74							
	Sub Total	5277.74							
	Raft								
	RCC Culvert								
	New Culverts	4	6.50	1.20	0.20	6.24			
	Side Wall								
	RCC Culvert								
	New Culverts	8	6.50	0.20	0.80	8.32			
						14.56	**Cum**	**5277.74**	**76,843.89**
8	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200.**TMT Bars Fe 500** (P.No.229, I.No.28.8.2 of PW, P&IWTD SR 2018-19)								
	Basic rate	68233.00							

	W0065								
	W0069	2	240.00	1.20		576.00			
	W0077	2	245.00	1.20		588.00			
	W0079	2	245.00	1.20		588.00			
	W0081	2	255.00	1.20		612.00			
	W0047	2	265.00	1.20		636.00			
	W0041	2	95.00	1.20		228.00			
	W0033	2	100.00	1.20		240.00			
	W0051	2	120.00	1.20		288.00			
		2	200.00	1.20		480.00			
	Tack Coat For BC								
	Road Works								
	Hegdenagar main Rd W0006								
	W0006 Ch 0 - 640	1	640.00	9.50		6,080.00			
	W0082 Ch 650 - 1010	1	360.00	9.90		3,564.00			
	W0137 Ch 1010 - 1050	1	40.00	7.30		292.00			
	W0137 Ch 1050 - 1310	1	260.00	5.80		1,508.00			
	W0096 Ch 1310 - 1410	1	100.00	6.00		600.00			
	W0209 Ch 1410 - 1740	1	330.00	6.40		2,112.00			
	W0355	1	125.00	5.50		687.50			
	W0130	1	30.00	4.50		135.00			
	W0134	1	35.00	5.50		192.50			
	W0136	1	35.00	4.40		154.00			
	W0357	1	60.00	5.00		300.00			
	W0357	1	200.00	5.50		1,100.00			
	W0361	1	220.00	5.50		1,210.00			
	W0369	1	385.00	5.50		2,117.50			
	W0373	1	400.00	5.50		2,200.00			
	W0377	1	390.00	5.50		2,145.00			
	W0146	1	40.00	5.50		220.00			
	W0379	1	160.00	5.50		880.00			
	W0140	1	105.00	5.50		577.50			
	W0389	1	240.00	4.80		1,152.00			
	W0391	1	435.00	5.50		2,392.50			
	W0411	1	525.00	5.50		2,887.50			
	W0065	1	240.00	5.50		1,320.00			
	W0069	1	245.00	5.50		1,347.50			
	W0077	1	245.00	5.50		1,347.50			
	W0079	1	255.00	5.50		1,402.50			
	W0081	1	265.00	5.50		1,457.50			
	W0047	1	95.00	4.50		427.50			
	W0041	1	100.00	5.50		550.00			
	W0033	1	120.00	5.50		660.00			
	W0039	1	155.00	5.50		852.50			
	W0045	1	135.00	5.50		742.50			
	W0045-A	1	50.00	5.50		275.00			
	W0051	1	200.00	4.80		960.00			
	W0055	1	150.00	5.50		825.00			
						58,489.50	**Sqm**	**12.72**	**743986.44**
15	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	Basic rate	6224.00							
	6% AW	373.44							

	W0045	1	135.00	5.50	0.30	222.75			
	W0045-A	1	50.00	5.50	0.30	82.50			
	W0051	2	200.00	1.20	0.30	144.00			
	W0055	1	150.00	5.50	0.30	247.50			
						6,562.20	**Cum**	**54.31**	**356393.08**
11	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Basic rate	1888.00							
	6% AW	113.28							
	Sub Total	2001.28							
	Road Works								
	Hegdenagar main Rd W0006								
	W0006 Ch 0 - 640	2	640.00	1.20	0.25	384.00			
	W0082 Ch 650 - 1010	2	360.00	1.20	0.25	216.00			
	W0137 Ch 1010 - 1050	1	40.00	1.20	0.25	12.00			
	W0137 Ch 1050 - 1310	1	260.00	1.20	0.25	78.00			
	W0096 Ch 1310 - 1410	1	100.00	1.20	0.25	30.00			
	W0209 Ch 1410 - 1740	1	330.00	1.20	0.25	99.00			
	W0355	2	125.00	1.20	0.25	75.00			
	W0130	1	30.00	4.50	0.25	33.75			
	W0134	1	35.00	5.50	0.25	48.13			
	W0136	1	35.00	4.40	0.25	38.50			
	W0357	2	60.00	1.20	0.25	36.00			
	W0357	2	200.00	1.20	0.25	120.00			
	W0361	2	220.00	1.20	0.25	132.00			
	W0369	2	385.00	1.20	0.25	231.00			
	W0373	2	400.00	1.20	0.25	240.00			
	W0377	2	390.00	1.20	0.25	234.00			
	W0146	2	40.00	1.20	0.25	24.00			
	W0379	2	160.00	1.20	0.25	96.00			
	W0140	1	105.00	5.50	0.25	144.38			
	W0389	2	240.00	1.20	0.25	144.00			
	W0391	1	435.00	5.50	0.25	598.13			
	W0411	1	525.00	5.50	0.25	721.88			
	W0065	2	240.00	1.20	0.25	144.00			
	W0069	2	245.00	1.20	0.25	147.00			
	W0077	2	245.00	1.20	0.25	147.00			
	W0079	2	255.00	1.20	0.25	153.00			
	W0081	2	265.00	1.20	0.25	159.00			
	W0047	2	95.00	1.20	0.25	57.00			
	W0041	2	100.00	1.20	0.25	60.00			
	W0033	2	120.00	1.20	0.25	72.00			
	W0039	1	155.00	5.50	0.25	213.13			
	W0045	1	135.00	5.50	0.25	185.63			
	W0045-A	1	50.00	5.50	0.25	68.75			
	W0051	2	200.00	1.20	0.25	120.00			
	W0055	1	150.00	5.50	0.25	206.25			
						5,468.50	**Cum**	**2001.28**	**10943999.68**
12	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.158, I.No.21.6 of PW,P&IWTD SR 2018-19)								
	Basic rate	27							

	6% AW	1.62							
	Sub Total	28.62							
	Road Works								
	Hegdenagar main Rd W0006								
	W0006 Ch 0 - 640	2	640.00	1.20		1,536.00			
	W0082 Ch 650 - 1010	2	360.00	1.20		864.00			
	W0137 Ch 1010 - 1050	1	40.00	1.20		48.00			
	W0137 Ch 1050 - 1310	1	260.00	1.20		312.00			
	W0096 Ch 1310 - 1410	1	100.00	1.20		120.00			
	W0209 Ch 1410 - 1740	1	330.00	1.20		396.00			
	W0355	2	125.00	1.20		300.00			
	W0130	1	30.00	4.50		135.00			
	W0134	1	35.00	5.50		192.50			
	W0136	1	35.00	4.40		154.00			
	W0357	2	60.00	1.20		144.00			
	W0357	2	200.00	1.20		480.00			
	W0361	2	220.00	1.20		528.00			
	W0369	2	385.00	1.20		924.00			
	W0373	2	400.00	1.20		960.00			
	W0377	2	390.00	1.20		936.00			
	W0146	2	40.00	1.20		96.00			
	W0379	2	160.00	1.20		384.00			
	W0140	1	105.00	5.50		577.50			
	W0389	2	240.00	1.20		576.00			
	W0391	1	435.00	5.50		2,392.50			
	W0411	1	525.00	5.50		2,887.50			
	W0065	2	240.00	1.20		576.00			
	W0069	2	245.00	1.20		588.00			
	W0077	2	245.00	1.20		588.00			
	W0079	2	255.00	1.20		612.00			
	W0081	2	265.00	1.20		636.00			
	W0047	2	95.00	1.20		228.00			
	W0041	2	100.00	1.20		240.00			
	W0033	2	120.00	1.20		288.00			
	W0039	1	155.00	5.50		852.50			
	W0045	1	135.00	5.50		742.50			
	W0045-A	1	50.00	5.50		275.00			
	W0051	2	200.00	1.20		480.00			
	W0055	1	150.00	5.50		825.00			
						21,874.00			
						21,874.00	**Sqm**	**28.62**	**626033.88**
13	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.158, I.No.21.2 of PW,P&IWTD SR 2018-19)								
	Basic rate	5.00							
	Area Weightage 6%	0.30							
	Final Rate	5.30							
	Road Works								
	Hegdenagar main Rd W0006								
	W0006 Ch 0 - 640	1	640.00	9.50		6,080.00			
	W0082 Ch 650 - 1010	1	360.00	9.90		3,564.00			
	W0137 Ch 1010 - 1050	1	40.00	7.30		292.00			
	W0137 Ch 1050 - 1310	1	260.00	5.80		1,508.00			
	W0096 Ch 1310 - 1410	1	100.00	6.00		600.00			
	W0209 Ch 1410 - 1740	1	330.00	6.40		2,112.00			
	W0355	1	125.00	5.50		687.50			
	W0130	1	30.00	4.50		135.00			
	W0134	1	35.00	5.50		192.50			

	W0136								
	W0357	1	35.00	4.40		154.00			
	W0357	1	60.00	5.00		300.00			
	W0361	1	200.00	5.50		1,100.00			
	W0369	1	220.00	5.50		1,210.00			
	W0373	1	385.00	5.50		2,117.50			
	W0377	1	400.00	5.50		2,200.00			
	W0146	1	390.00	5.50		2,145.00			
	W0379	1	40.00	5.50		220.00			
	W0140	1	160.00	5.50		880.00			
	W0389	1	105.00	5.50		577.50			
	W0391	1	240.00	4.80		1,152.00			
	W0411	1	435.00	5.50		2,392.50			
		1	525.00	5.50		2,887.50			
	W0065	1	240.00	5.50		1,320.00			
	W0069	1	245.00	5.50		1,347.50			
	W0077	1	245.00	5.50		1,347.50			
	W0079	1	255.00	5.50		1,402.50			
	W0081	1	265.00	5.50		1,457.50			
	W0047	1	95.00	4.50		427.50			
	W0041	1	100.00	5.50		550.00			
	W0033	1	120.00	5.50		660.00			
	W0039	1	155.00	5.50		852.50			
	W0045	1	135.00	5.50		742.50			
	W0045-A	1	50.00	5.50		275.00			
	W0051	1	200.00	4.80		960.00			
	W0055	1	150.00	5.50		825.00			
	deduct prime coat					-21,874.00			
						22,800.50	**Sqm**	5.30	**120842.65**
14	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.158 I.No.21.7 of PW,P&IWTD SR of 2018-19)								
	Basic rate	12.00							
	Area Weightage 6%	0.72							
	Final Rate	12.72							
	Tack Coat For DBM								
	DBM								
	Road Works								
	Hegdenagar main Rd W0006								
	W0006 Ch 0 - 640	2	640.00	1.20		1,536.00			
	profile	1	200.00	3.00		600.00			
	W0082 Ch 650 - 1010	2	360.00	1.20		864.00			
	profile	1	150.00	2.50		375.00			
	W0137 Ch 1010 - 1050	1	40.00	1.20		48.00			
	W0137 Ch 1050 - 1310	1	260.00	1.20		312.00			
	W0096 Ch 1310 - 1410	1	100.00	1.20		120.00			
	W0209 Ch 1410 - 1740	1	330.00	1.20		396.00			
	W0355	2	125.00	1.20		300.00			
	W0357	2	60.00	1.20		144.00			
	W0357	2	200.00	1.20		480.00			
	W0361	2	220.00	1.20		528.00			
	W0369	2	385.00	1.20		924.00			
	W0373	2	400.00	1.20		960.00			
	W0377	2	390.00	1.20		936.00			
	W0146	2	40.00	1.20		96.00			
	W0379	2	160.00	1.20		384.00			
	W0389	2	240.00	1.20		576.00			

	W0065								
	W0069	2	240.00	1.20		576.00			
	W0077	2	245.00	1.20		588.00			
	W0079	2	245.00	1.20		588.00			
	W0081	2	255.00	1.20		612.00			
	W0047	2	265.00	1.20		636.00			
	W0041	2	95.00	1.20		228.00			
	W0033	2	100.00	1.20		240.00			
	W0051	2	120.00	1.20		288.00			
		2	200.00	1.20		480.00			
	Tack Coat For BC								
	Road Works								
	Hegdenagar main Rd W0006								
	W0006 Ch 0 - 640	1	640.00	9.50		6,080.00			
	W0082 Ch 650 - 1010	1	360.00	9.90		3,564.00			
	W0137 Ch 1010 - 1050	1	40.00	7.30		292.00			
	W0137 Ch 1050 - 1310	1	260.00	5.80		1,508.00			
	W0096 Ch 1310 - 1410	1	100.00	6.00		600.00			
	W0209 Ch 1410 - 1740	1	330.00	6.40		2,112.00			
	W0355	1	125.00	5.50		687.50			
	W0130	1	30.00	4.50		135.00			
	W0134	1	35.00	5.50		192.50			
	W0136	1	35.00	4.40		154.00			
	W0357	1	60.00	5.00		300.00			
	W0357	1	200.00	5.50		1,100.00			
	W0361	1	220.00	5.50		1,210.00			
	W0369	1	385.00	5.50		2,117.50			
	W0373	1	400.00	5.50		2,200.00			
	W0377	1	390.00	5.50		2,145.00			
	W0146	1	40.00	5.50		220.00			
	W0379	1	160.00	5.50		880.00			
	W0140	1	105.00	5.50		577.50			
	W0389	1	240.00	4.80		1,152.00			
	W0391	1	435.00	5.50		2,392.50			
	W0411	1	525.00	5.50		2,887.50			
	W0065	1	240.00	5.50		1,320.00			
	W0069	1	245.00	5.50		1,347.50			
	W0077	1	245.00	5.50		1,347.50			
	W0079	1	255.00	5.50		1,402.50			
	W0081	1	265.00	5.50		1,457.50			
	W0047	1	95.00	4.50		427.50			
	W0041	1	100.00	5.50		550.00			
	W0033	1	120.00	5.50		660.00			
	W0039	1	155.00	5.50		852.50			
	W0045	1	135.00	5.50		742.50			
	W0045-A	1	50.00	5.50		275.00			
	W0051	1	200.00	4.80		960.00			
	W0055	1	150.00	5.50		825.00			
						58,489.50	**Sqm**	**12.72**	**743986.44**
15	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	Basic rate	6224.00							
	6% AW	373.44							

	Sub Total	6597.44							
	DBM								
	Road Works								
	Hegdenagar main Rd W0006								
	W0006 Ch 0 - 640	2	640.00	1.20	0.05	76.80			
	profile	1	200.00	3.00	0.05	30.00			
	W0082 Ch 650 - 1010	2	360.00	1.20	0.05	43.20			
	profile	1	150.00	2.50	0.05	18.75			
	W0137 Ch 1010 - 1050	1	40.00	1.20	0.05	2.40			
	W0137 Ch 1050 - 1310	1	260.00	1.20	0.05	15.60			
	W0096 Ch 1310 - 1410	1	100.00	1.20	0.05	6.00			
	W0209 Ch 1410 - 1740	1	330.00	1.20	0.05	19.80			
	W0355	2	125.00	1.20	0.05	15.00			
	W0357	2	60.00	1.20	0.05	7.20			
	W0357	2	200.00	1.20	0.05	24.00			
	W0361	2	220.00	1.20	0.05	26.40			
	W0369	2	385.00	1.20	0.05	46.20			
	W0373	2	400.00	1.20	0.05	48.00			
	W0377	2	390.00	1.20	0.05	46.80			
	W0146	2	40.00	1.20	0.05	4.80			
	W0379	2	160.00	1.20	0.05	19.20			
	W0389	2	240.00	1.20	0.05	28.80			
	W0065	2	240.00	1.20	0.05	28.80			
	W0069	2	245.00	1.20	0.05	29.40			
	W0077	2	245.00	1.20	0.05	29.40			
	W0079	2	255.00	1.20	0.05	30.60			
	W0081	2	265.00	1.20	0.05	31.80			
	W0047	2	95.00	1.20	0.05	11.40			
	W0041	2	100.00	1.20	0.05	12.00			
	W0033	2	120.00	1.20	0.05	14.40			
	W0051	2	200.00	1.20	0.05	24.00			
						690.75	**Cum**	**6597.44**	**4557181.68**
16	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (P.No.171, I.No.21.78.12 of PW,P&IWTD SR 2018-19) As per Issue rate dated: 03/01/2020								
	Basic rate (Issue Rate)	7315.00							
	6% AW	438.90							
	Sub Total	7753.90							
	Road Works								
	Hegdenagar main Rd W0006								
	W0006 Ch 0 - 640	1	640.00	9.50	0.04	243.20			
	W0082 Ch 650 - 1010	1	360.00	9.90	0.04	142.56			
	W0137 Ch 1010 - 1050	1	40.00	7.30	0.04	11.68			
	W0137 Ch 1050 - 1310	1	260.00	5.80	0.04	60.32			
	W0096 Ch 1310 - 1410	1	100.00	6.00	0.04	24.00			
	W0209 Ch 1410 - 1740	1	330.00	6.40	0.04	84.48			
	W0355	1	125.00	5.50	0.04	27.50			
	W0130	1	30.00	4.50	0.04	5.40			
	W0134	1	35.00	5.50	0.04	7.70			
	W0136	1	35.00	4.40	0.04	6.16			
	W0357	1	60.00	5.00	0.04	12.00			
	W0357	1	200.00	5.50	0.04	44.00			
	W0361	1	220.00	5.50	0.04	48.40			

	W0369								
	W0373	1	385.00	5.50	0.04	84.70			
	W0377	1	400.00	5.50	0.04	88.00			
	W0146	1	390.00	5.50	0.04	85.80			
	W0379	1	40.00	5.50	0.04	8.80			
	W0140	1	160.00	5.50	0.04	35.20			
	W0389	1	105.00	5.50	0.04	23.10			
	W0391	1	240.00	4.80	0.04	46.08			
	W0411	1	435.00	5.50	0.04	95.70			
		1	525.00	5.50	0.04	115.50			
	W0065								
	W0069	1	240.00	5.50	0.04	52.80			
	W0077	1	245.00	5.50	0.04	53.90			
	W0079	1	245.00	5.50	0.04	53.90			
	W0081	1	255.00	5.50	0.04	56.10			
	W0047	1	265.00	5.50	0.04	58.30			
	W0041	1	95.00	4.50	0.04	17.10			
	W0033	1	100.00	5.50	0.04	22.00			
	W0039	1	120.00	5.50	0.04	26.40			
	W0045	1	155.00	5.50	0.04	34.10			
	W0045-A	1	135.00	5.50	0.04	29.70			
	W0051	1	50.00	5.50	0.04	11.00			
	W0055	1	200.00	4.80	0.04	38.40			
		1	150.00	5.50	0.04	33.00			
						1,786.98	**Cum**	**7753.9**	**13856064.22**
17	**KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	6% AW	25.74							
	Sub Total	454.74							
	Center Line	0.50	7,370.00	0.10		368.50			
	Edge Line	2.00	6,770.00	0.10		1,354.00			
						1,722.50	**Sqm**	**454.74**	**783289.65**
								Total Construction Cost	**33543935.88**
18								**12% GST to Construction Cost**	**4025272.31**
19								**5% Tender Premium**	**1677196.79**
20								**Cost towards Preparation of DPR LS**	**375693.00**
21								**Cost towards PMC / Third Party inspection LS**	**375693.00**
								Sub Total	**39997790.98**
22								**Miscellaneous and rounding off**	**2,209.02**
								TOTAL	**40000000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

Tejus Consultants

Assistant Engineer
BBMP Bangalore

Asst. Executive Engineer,
BBMP Bangalore

Executive Engineer
BBMP Bangalore

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ಬ್ಯಾಟರಾಯನಪುರ ವಿಧಾನ ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ನಮ್ಮಾಪಗರ ಪಾಲಿಕೆ ಬೆಂಗಳೂರು-560092

Bruhat Bangalore Mahanagara Palike

Name of Work: Improvements to roads and drains at Kogilu and surrounding area in Ward No 05 Byatarayanapura sub division

Est Cost: =300.00Lakhs

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work		m	m	m				
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5=69.80								
	Basic rate	130.00							
	5Km lead & Lift= 57+(2*1.28*5)	69.80							
	Sub Total	199.80							
	6% AW	11.99							
	Total	211.79							
	Desilt								
	Tirumenahalli Govt School Rd								
	W1271	2	610.00	0.60	0.35	256.20			
	Kogilu Mn Rd Surrounding								
	WA485	2	80.00	0.60	0.35	33.60			
	W0481	2	370.00	0.60	0.35	155.40			
	W0242	2	135.00	0.60	0.35	56.70			
	W0242 A	2	225.00	0.60	0.35	94.50			
	W0248	2	160.00	0.60	0.35	67.20			
	W0252	2	160.00	0.60	0.35	67.20			
	W0256	2	120.00	0.60	0.35	50.40			
	W0258	2	110.00	0.60	0.35	46.20			
	W0264	2	370.00	0.60	0.35	155.40			
	W0266	2	285.00	0.60	0.35	119.70			
	W0268	2	330.00	0.60	0.35	138.60			
	WA262	2	50.00	0.60	0.35	21.00			
	W0485	2	30.00	0.60	0.35	12.60			
	Apoorva Meadows Rd								
	W0536	2	350.00	0.60	0.35	147.00			
	W0941	2	25.00	0.60	0.35	10.50			
	Cross Rd - 1	2	35.00	0.60	0.35	14.70			
	W0945	2	240.00	0.60	0.35	100.80			
	W0174	2	300.00	0.60	0.35	126.00			
	W0383	2	250.00	0.60	0.35	105.00			
	WA457	2	60.00	0.60	0.35	25.20			
	WK455	2	60.00	0.60	0.35	25.20			
	WC 455	2	65.00	0.60	0.35	27.30			
	Lakshmaiah Garden								
	Cross Rd - 1	2	93.00	0.60	0.35	39.06			
	Cross Rd - 2	2	100.00	0.60	0.35	42.00			
	Cross Rd - 3	2	100.00	0.60	0.35	42.00			
						1979.46	**Cum**	**211.79**	**419229.83**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27, I.No.5.33 of PW, P&IWTD SR 2018-19)								
	Basic rate	105.00							
	6% AW	6.30							
	Total	111.30							
	Desilt								
	Tirumenahalli Govt School Rd								
	W1271	2	610.00	1.35		1647.00			
	Kogilu Mn Rd Surrounding								
	WA485	2	80.00	1.35		216.00			
	W0242	2	135.00	1.35		364.50			
	W0242 A	2	225.00	1.35		607.50			
	W0252	2	160.00	1.35		432.00			
	W0256	2	120.00	1.35		324.00			
	W0258	2	110.00	1.35		297.00			
	W0264	2	370.00	1.35		999.00			
	W0266	2	285.00	1.35		769.50			
	W0268	2	330.00	1.35		891.00			
	WA262	2	50.00	1.35		135.00			

	W0485	2	30.00	1.35		81.00			
	Apoorva Meadows Rd								
	W0536	2	350.00	1.35		945.00			
	W0941	2	25.00	1.35		67.50			
	Cross Rd - 1	2	35.00	1.35		94.50			
	W0945	2	240.00	1.35		648.00			
	W0174	2	300.00	1.35		810.00			
	W0383	2	250.00	1.35		675.00			
	WA457	2	60.00	1.35		162.00			
	WK455	2	60.00	1.35		162.00			
	WC 455	2	65.00	1.35		175.50			
	Lakshmaiah Garden								
	Cross Rd - 1	2	93.00	1.35		251.10			
	Cross Rd - 2	2	100.00	1.35		270.00			
	Cross Rd - 3	2	100.00	1.35		270.00			
						11294.10			
	Consider 15%					**1694.12**			
	deduct damaged / missing slab 10%					-169.41			
						1524.70	**Sqm**	**111.30**	**169699.50**
3	Removing and resetting of footpath slab (P.No.270, I.No.37.56 of PW, P&IWTD SR 2018-19)								
	Basic rate	197.00							
	6% AW	11.82							
	Total	208.82							
	Drain Cover								
	W0481	2	370.00	0.90		666.00			
	W0248	1	160.00	0.90		144.00			
	Culvert Slab	3	6.00	1.50		27.00			
	Add damaged / missing slab 10%					-83.70			
						753.30	**Sqm**	**208.82**	**157304.11**
4	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.27, I.No.5.31.1 of PW, P&IWTD SR 2018-19)								
	Basic rate	700.00							
	6% AW	42.00							
	Sub Total	742.00							
	Add damaged / missing slab 10%					169.41			
						169.41	**Sqm**	**742.00**	**125703.33**
5	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machineries, curing, lead and lift charges etc, Complete as per MORTH specifications No. 1500, 1700. (P.No.272, I.No.37.66 of PW,P&IWTD SR 2018-19)								
	A.Basic rate	1081.00							
	B.Area Weightage 6%	64.86							
	Total	1145.86							
	Precast Covering Slab					83.70			
	Add 10% damaged					**83.70**	**m**	**1145.86**	**95,908.48**
6	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301with 4km lead= (I No-19.14,P No-143)								
	Basic rate	41.00							
	5Km lead & Lift= (2*1.28*4)	10.24							
	Sub Total	51.24							

	6% AW	3.07							
	Total	54.31							
	Road Works								
	Tirumenahalli Govt School Rd								
	W1271	1	610.00	6.50	0.30	1189.50			
		1	300.00	5.50	0.30	495.00			
	Kogilu Mn Rd Surrounding								
	WA485	1	80.00	5.50	0.30	132.00			
	W0242	1	135.00	5.50	0.30	222.75			
	W0242 A	1	225.00	5.50	0.30	371.25			
	W0248	1	160.00	5.50	0.30	264.00			
	W0252	1	160.00	5.50	0.30	264.00			
	W0256	1	120.00	5.50	0.30	198.00			
	W0258	1	110.00	5.50	0.30	181.50			
	W0264	1	370.00	4.70	0.30	521.70			
	WA262	1	50.00	5.50	0.30	82.50			
	W0485	1	30.00	5.50	0.30	49.50			
	Apoorva Meadows Rd								
	W0536	1	350.00	5.50	0.30	577.50			
	W0941	1	25.00	5.50	0.30	41.25			
	Cross Rd - 1	1	35.00	4.60	0.30	48.30			
	W0945	1	240.00	5.50	0.30	396.00			
	WB485	1	80.00	4.80	0.30	115.20			
	W0483	1	150.00	4.60	0.30	207.00			
	W0174	1	300.00	1.20	0.30	108.00			
	W0383	1	250.00	1.20	0.30	90.00			
	WA457	1	60.00	1.20	0.30	21.60			
	WK455	1	60.00	1.20	0.30	21.60			
	WC 455	1	65.00	1.20	0.30	23.40			
	Lakshmaiah Garden								
	Cross Rd - 1	1	93.00	5.50	0.30	153.45			
	Cross Rd - 2	1	100.00	5.50	0.30	165.00			
	Cross Rd - 3	1	100.00	5.50	0.30	165.00			
						6105.00	**Cum**	**54.31**	**331562.55**
7	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Basic rate	1888.00							
	6% AW	113.28							
	Sub Total	2001.28							
	Road Works								
	Tirumenahalli Govt School Rd								
	W1271	1	610.00	6.50	0.25	991.25			
		1	300.00	5.50	0.25	412.50			
	Kogilu Mn Rd Surrounding								
	WA485	1	80.00	5.50	0.25	110.00			
	W0242	1	135.00	5.50	0.25	185.63			
	W0242 A	1	225.00	5.50	0.25	309.38			
	W0248	1	160.00	5.50	0.25	220.00			
	W0252	1	160.00	5.50	0.25	220.00			
	W0256	1	120.00	5.50	0.25	165.00			
	W0258	1	110.00	5.50	0.25	151.25			
	W0264	1	370.00	4.70	0.25	434.75			
	WA262	1	50.00	5.50	0.25	68.75			
	W0485	1	30.00	5.50	0.25	41.25			
	Apoorva Meadows Rd								
	W0536	1	350.00	5.50	0.25	481.25			
	W0941	1	25.00	5.50	0.25	34.38			
	Cross Rd - 1	1	35.00	4.60	0.25	40.25			
	W0945	1	240.00	5.50	0.25	330.00			
	WB485	1	80.00	4.80	0.25	96.00			
	W0483	1	150.00	4.60	0.25	172.50			
	W0174	1	300.00	1.20	0.25	90.00			
	W0383	1	250.00	1.20	0.25	75.00			
	WA457	1	60.00	1.20	0.25	18.00			

	WK455	1	60.00	1.20	0.25	18.00			
	WC 455	1	65.00	1.20	0.25	19.50			
	Lakshmaiah Garden								
	Cross Rd - 1	1	93.00	5.50	0.25	127.88			
	Cross Rd - 2	1	100.00	5.50	0.25	137.50			
	Cross Rd - 3	1	100.00	5.50	0.25	137.50			
						5087.50	**Cum**	**2001.28**	**10181512.00**
8	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.158, I.No.21.6 of PW,P&IWTD SR 2018-19)								
	Basic rate (Issue Rate)	27.00							
	6% AW	1.62							
	Sub Total	28.62							
	Road Works								
	Tirumenahalli Govt School Rd								
	W1271	1	610.00	6.50		3965.00			
		1	300.00	5.50		1650.00			
	Kogilu Mn Rd Surrounding								
	WA485	1	80.00	5.50		440.00			
	W0242	1	135.00	5.50		742.50			
	W0242 A	1	225.00	5.50		1237.50			
	W0248	1	160.00	5.50		880.00			
	W0252	1	160.00	5.50		880.00			
	W0256	1	120.00	5.50		660.00			
	W0258	1	110.00	5.50		605.00			
	W0264	1	370.00	4.70		1739.00			
	WA262	1	50.00	5.50		275.00			
	W0485	1	30.00	5.50		165.00			
	Apoorva Meadows Rd								
	W0536	1	350.00	5.50		1925.00			
	W0941	1	25.00	5.50		137.50			
	Cross Rd - 1	1	35.00	4.60		161.00			
	W0945	1	240.00	5.50		1320.00			
	WB485	1	80.00	4.80		384.00			
	W0483	1	150.00	4.60		690.00			
	W0174	1	300.00	1.20		360.00			
	W0383	1	250.00	1.20		300.00			
	WA457	1	60.00	1.20		72.00			
	WK455	1	60.00	1.20		72.00			
	WC 455	1	65.00	1.20		78.00			
	Lakshmaiah Garden								
	Cross Rd - 1	1	93.00	5.50		511.50			
	Cross Rd - 2	1	100.00	5.50		550.00			
	Cross Rd - 3	1	100.00	5.50		550.00			
				Sub Total		**20350.00**			
						20350.00	**Sqm**	**28.62**	**582417.00**
9	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.158, I.No.21.2 of PW,P&IWTD SR 2018-19)								
	Basic rate	5.00							
	Area Weightage 6%	0.30							
	Final Rate	5.30							
	W0481	1	370.00	13.00		4810.00			
	W0266	1	285.00	5.50		1567.50			
	W0268	1	330.00	6.40		2112.00			
	W0174	1	300.00	5.50		1650.00			
	W0383	1	250.00	5.50		1375.00			
	WA457	1	60.00	4.80		288.00			
	WK455	1	60.00	4.50		270.00			
	WC 455	1	65.00	4.70		305.50			
	deduct prime coat					-882.00			
						11496.00	**Sqm**	**5.30**	60,928.80

10	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.158 I.No.21.7 of PW,P&IWTD SR of 2018-19)									
	Basic rate (Issue Rate)	12.00								
	Area Weightage 6%	0.72								
	Final Rate	12.72								
	Tack Coat For DBM									
	DBM									
	Road Works									
	Tirumenahalli Govt School Rd									
	W1271	1	610.00	6.50		3965.00				
		1	300.00	5.50		1650.00				
	W0174	1	300.00	1.20		360.00				
	W0383	1	250.00	1.20		300.00				
	WA457	1	60.00	1.20		72.00				
	WK455	1	60.00	1.20		72.00				
	WC 455	1	65.00	1.20		78.00				
	Tack Coat For BC									
	W1271	1	610.00	6.50		3965.00				
		1	300.00	5.50		1650.00				
	Kogilu Mn Rd Surrounding									
	WA485	1	80.00	5.50		440.00				
	W0242	1	135.00	5.50		742.50				
	W0242 A	1	225.00	5.50		1237.50				
	W0248	1	160.00	5.50		880.00				
	W0252	1	160.00	5.50		880.00				
	W0256	1	120.00	5.50		660.00				
	W0258	1	110.00	5.50		605.00				
	W0264	1	370.00	4.70		1739.00				
	WA262	1	50.00	5.50		275.00				
	W0485	1	30.00	5.50		165.00				
	Apoorva Meadows Rd									
	W0536	1	350.00	5.50		1925.00				
	W0941	1	25.00	5.50		137.50				
	Cross Rd - 1	1	35.00	4.60		161.00				
	W0945	1	240.00	5.50		1320.00				
	WB485	1	80.00	4.80		384.00				
	W0483	1	150.00	4.60		690.00				
	W0481	1	370.00	13.00		4810.00				
	W0266	1	285.00	5.50		1567.50				
	W0268	1	330.00	6.40		2112.00				
	W0174	1	300.00	5.50		1650.00				
	W0383	1	250.00	5.50		1375.00				
	WA457	1	60.00	4.80		288.00				
	WK455	1	60.00	4.50		270.00				
	WC 455	1	65.00	4.70		305.50				
	Lakshmaiah Garden									
	Cross Rd - 1	1	93.00	5.50		511.50				
	Cross Rd - 2	1	100.00	5.50		550.00				
	Cross Rd - 3	1	100.00	5.50		550.00				
						38343.00	**Sqm**	**12.72**	**487722.96**	
11	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)									
	Basic rate (Issue Rate)	6224.00								
	6% AW	373.44								
	Sub Total	6597.44								

	DBM								
	Road Works								
	Tirumenahalli Govt School Rd								
	W1271	1	610.00	6.50	0.05	198.25			
		1	300.00	5.50	0.05	82.50			
	W0174	1	300.00	1.20	0.05	18.00			
	W0383	1	250.00	1.20	0.05	15.00			
	WA457	1	60.00	1.20	0.05	3.60			
	WK455	1	60.00	1.20	0.05	3.60			
	WC 455	1	65.00	1.20	0.05	3.90			
						324.85	**Cum**	**6597.44**	**2143178.38**
12	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (P.No.171, I.No.21.78.12 of PW,P&IWTD SR 2018-19) As per Issue rate dated: 03/01/2020								
	Basic rate (Issue Rate)	7315.00							
	6% AW	438.90							
	Sub Total	7753.90							
	Tirumenahalli Govt School Rd								
	W1271	1	610.00	6.50	0.04	158.60			
		1	300.00	5.50	0.04	66.00			
	Kogilu Mn Rd Surrounding								
	WA485	1	80.00	5.50	0.04	17.60			
	W0242	1	135.00	5.50	0.04	29.70			
	W0242 A	1	225.00	5.50	0.04	49.50			
	W0248	1	160.00	5.50	0.04	35.20			
	W0252	1	160.00	5.50	0.04	35.20			
	W0256	1	120.00	5.50	0.04	26.40			
	W0258	1	110.00	5.50	0.04	24.20			
	W0264	1	370.00	4.70	0.04	69.56			
	WA262	1	50.00	5.50	0.04	11.00			
	W0485	1	30.00	5.50	0.04	6.60			
	Apoorva Meadows Rd								
	W0536	1	350.00	5.50	0.04	77.00			
	W0941	1	25.00	5.50	0.04	5.50			
	Cross Rd - 1	1	35.00	4.60	0.04	6.44			
	W0945	1	240.00	5.50	0.04	52.80			
	WB485	1	80.00	4.80	0.04	15.36			
	W0483	1	150.00	4.60	0.04	27.60			
	W0481	1	370.00	13.00	0.04	192.40			
	W0266	1	285.00	5.50	0.04	62.70			
	W0268	1	330.00	6.40	0.04	84.48			
	W0174	1	300.00	5.50	0.04	66.00			
	W0383	1	250.00	5.50	0.04	55.00			
	WA457	1	60.00	4.80	0.04	11.52			
	WK455	1	60.00	4.50	0.04	10.80			
	WC 455	1	65.00	4.70	0.04	12.22			
	Lakshmaiah Garden								
	Cross Rd - 1	1	93.00	5.50	0.04	20.46			
	Cross Rd - 2	1	100.00	5.50	0.04	22.00			
	Cross Rd - 3	1	100.00	5.50	0.04	22.00			
						1273.84	**Cum**	**7753.90**	**9877227.98**
13	**KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	6% AW	25.74							

	Sub Total	454.74							
	Center Line	0.50	5243.00	0.10		262.15			
	Edge Line	2.00	4423.00	0.10		884.60			
						1146.75	Sqm	454.74	521473.10
								Total Construction Cost	25153868.02
14								12% GST to Construction Cost	3018464.16
15								5% Tender Premium	1257693.40
16								Cost towards Preparation of DPR LS	281724.00
17								Cost towards PMC / Third Party inspection LS	281724.00
								Sub Total	29993473.58
18								Miscellaneous and rounding off	6,526.42
								TOTAL	30000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

Tejus Consultants

Assistant Engineer
BBMP Bangalore

Asst. Executive Engineer,
BBMP Bangalore

Executive Engineer,
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಬೆಂಗಳೂರು-560002.